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## FACSIMILE COVER SHEET

**DATE:** November 3, 2003  
**FILE NO.:** AMAT/4714.P1/TCG/WCVD/RKK  
**TO:** Examiner: David Zarneke  
**FAX NO.:** 703-746-3876  
**PHONE NO.:** 703-305-3926  
**COMPANY:** USPTO  
**FROM:** Keith M. Tackett  
**PAGE(S) with cover:** 11  
**ORIGINAL TO FOLLOW?** ☐ YES ☒ NO

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### PETITION TO WITHDRAW ABANDONMENT

**TITLE:** Method and Apparatus for Depositing Refractory Metal Layers  
Employing Sequential Deposition Techniques to Form  
Nucleation Layer  
**U.S. SERIAL NO.:** 09/678,266  
**FILING DATE:** October 3, 2000  
**INVENTOR:** Kori, et al.  
**EXAMINER:** David Zarneke  
**GROUP ART UNIT:** 2827  
**CONFIRMATION NO.:** 4642

### CONFIDENTIALITY NOTE

The document accompanying this facsimile transmission contains information from the law firm of Moser, Patterson & Sheridan, L.L.P. which is confidential or privileged. The information is intended to be for the use of the individual or entity named on this transmission sheet. If you are not the intended recipient, be aware that any disclosure, copying, distribution or use of the contents of this faxed information is prohibited. If you have received this facsimile in error, please notify us by telephone immediately so that we can arrange for the retrieval of the original documents at no cost to you.

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**PATENT**  
 Atty. Docket No. AMAT/4714.P1/TCG/WCVD/BG

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Korj. et al.

**Serial No.: 09/678,266**

**Confirmation No.: 4642**

**Filed:           October 3, 2000**

For: METHOD AND APPARATUS FOR  
DEPOSITING REFRACTORY METAL  
LAYERS EMPLOYING SEQUENTIAL  
DEPOSITION TECHNIQUES TO  
FORM NUCLEATION LAYER

**Box DAC**  
**Commissioner for Patents**  
**Washington, D.C. 20231**

**Dear Sir:**

**Group Art Unit: 2827**

Examiner: Zameke, David

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37 CFR 1.8

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02/04/03

Ken

**PETITION TO WITHDRAW ABANDONMENT UNDER 37 C.F.R. § 1.181**

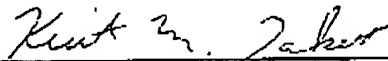
Applicants petition that the abandonment entered on January 20, 2003 by the Office be withdrawn. Applicants submit that the Notice of Allowance dated August 13, 2002, (copy attached) for the above-identified application was not received by Applicants until January 24, 2003. The Notice of Allowance was received in an envelope postmarked January 13, 2003. Applicants note that the Notice of Allowance received by Applicants has a stamp stating "Received SEP-4 2002 Technology Center 2800." Applicants also note that the mailing address listed on the Notice of Allowance is not the correct correspondence address. Thus, Applicants believe that the Notice of Allowance was mailed, but returned to the Patent Office on September 4, 2002. As Applicants did not receive the Notice of Allowance until January 24, 2003 in an envelope postmarked January 13, 2003, Applicants were not able to pay the issue fee by the due date of November 13, 2002. Accordingly, Applicants respectfully request

mailing of a Notice of Allowance showing the correct mailing date and withdrawal of the holding of abandonment.

In support of this petition, Applicants provide enclosed written statements under 37 C.F.R. § 1.181 and a copy of a docket record for the above-identified application as Exhibit A.

Applicants do not feel that a fee is necessary at this time, but if the sum of \$130.00 is due under 37 C.F.R. § 1.17 (h), the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely and acceptable to the Deposit Account No. 20-0782/AMAT/4714.P1/KMT.

Respectfully submitted,



Keith M. Tackett  
Registration No. 32,008  
MOSER, PATTERSON & SHERIDAN, L.L.P.  
3040 Post Oak Blvd., Suite 1500  
Houston, TX 77056  
Telephone: (713) 623-4844  
Facsimile: (713) 623-4846  
Attorney for Assignee

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08/13/2002

APPLIED MATERIALS, INC.  
2881 SCOTT BLVD. M/S 2061  
SANTA CLARA, CA 95050

## NOTICE OF ALLOWANCE AND FEE(S) DUE

COMPUTER ENTERI  
JAN 24 2003

EXAMINER

ZARNEKE, DAVID

ART UNIT

CLASS-SUBCLASS

2827

438-685000

DATE MAILED: 08/13/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/678,266	10/03/2000	Ming Xi	004714 POI	4642

TITLE OF INVENTION: METHOD AND APPARATUS FOR DEPOSITING REFRACTORY METAL LAYERS EMPLOYING SEQUENTIAL DEPOSITION TECHNIQUES TO FORM A NUCLEATION LAYER

## Match and Return

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	11/13/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status.  
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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PCMaster v3.03.02 - Applied Materials - [Patent]			
File Edit Reports Window Tools Help			
<b>Docket Number</b>	004714	<b>Attorney</b>	Walter Benjamin Glenn
<b>Country</b>	United States	<b>Firm Name</b>	Moser, Patterson & Sheridan, L
<b>Cass Type</b>	REGULAR CASE TYPE	<b>Client Division</b>	Cu. PVD and Integrated System
<b>Relation Type</b>	CONTINUATION-IN-PART	<b>Current Owner</b>	Applied Materials, Inc.
<b>Filing Type</b>	NATIONAL CASE	<b>Previous Owner</b>	
<b>Filing Number</b>	01	<b>Agency</b>	

**METHOD AND APPARATUS FOR DEPOSITING REFRACTORY METAL LAYERS EMPLOYING**

Action	Action Due Date	Taken Date	Deadline Date	Completed Date	Action Notes
NOTICE OF MISSING INVENTOR FILING	02/06/2001			02/06/2001	signa
EPC SEARCH/POSS IDS	01/15/2002			10/31/2001	
INVENTOR FILING	02/21/2002			03/08/2002	FOR
RESTRICTION	05/23/2002	05/03/2002		05/06/2002	To
ISSUE FEE DUE RESPONSE TO DECISION GRANTING REVOCATION OF SUPPLEMENTAL IDS FILE ASSIGNMENT SUPPLEMENTAL IDS	11/13/2002 02/20/2003	01/24/2003			1-24
				06/26/2002	W/D
				07/10/2002	PWR
				05/24/2002	
				10/15/2001	A56
				11/08/2001	

Created: 10/09/2003 Updated: 01/24/2003 2:51 PM Page 63B

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Docket Number: 004714 Attorney: Walter Benjamin Glenn

1-24-2003-This just in from Patent Office - sent to Todd, cc'd ben to contact PTO regarding late mailing of PTO docs to AMAT/SRG

OK Cancel

02/06/2001		02/06/2001	signatures to MW on
02/21/2001		03/08/2002	
01/15/2002		10/31/2001	
02/21/2002		03/08/2002	FOR LU & LAJ/DB
05/23/2002	05/03/2002	05/06/2002	To TP/SRG
11/13/2002	01/24/2003		1-24-2003-This just in
02/20/2003			
		06/26/2002	W/D BROOKS AS
		07/10/2002	PWR FILED 5/2/2002
		05/24/2002	
		10/15/2001	ASG DUE TO ADD LU.
		11/09/2001	

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**COPY**PATENT  
Atty. Docket No. AMAT/4714.P1/TCG/WCVD/BG**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**In re Application of:  
Kori, et al,

Serial No.: 09/678,266

Confirmation No.: 4642

Filed: October 3, 2000

For: METHOD AND APPARATUS FOR  
DEPOSITING REFRACTORY METAL  
LAYERS EMPLOYING SEQUENTIAL  
DEPOSITION TECHNIQUES TO  
FORM NUCLEATION LAYERBox DAC  
Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Group Art Unit: 2827

Examiner: Zameke, David

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02/04/2003	Signature
Date	

**STATEMENT BY GAILE P. BAILEY**

I, Gaile P. Bailey, am providing the following statement under 37 CFR 1.181:

I am the Docketing Administrator for Applied Materials Inc., of Santa Clara, California. I am responsible for receiving and docketing every official communication from the United States Patent and Trademark Office. As of today, I have not received a Notice of Allowance for the above-identified application other than the Notice of Allowance dated August 13, 2002 that we received on January 24, 2003 in an envelope postmarked January 13, 2003. A copy of the docket record (Exhibit A) is enclosed herewith to indicate absence of timely receipt of the Notice of Allowance.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may

PATENT  
Atty. Docket No. AMAT/4714.P1/TCG/WCVD/BG

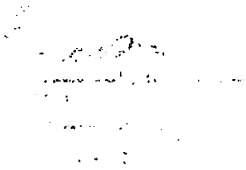
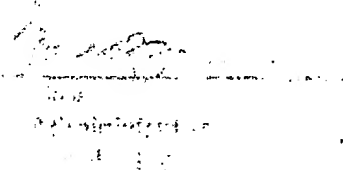
jeopardize the validity of the application, any patent issuing thereon, or any patent to which the verified statement is directed.



Gaile P. Bailey  
Docketing Administrator  
Applied Materials, Inc.,  
P.O. Box. 458  
Santa Clara, California 95052

Date Signed: 2-3-2003

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PATENT  
Atty. Docket No. AMAT/4714/P1/TCGM/CVD/86

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Kuri, et al.

Serial No.: 09/678,266

Confirmation No.: 4642

Filed: October 3, 2000

For: METHOD AND APPARATUS FOR  
DEPOSITING REFRACTORY METAL  
LAYERS EMPLOYING SEQUENTIAL  
DEPOSITION TECHNIQUES TO  
FORM NUCLEATION LAYER

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Dear Sir:

Group Art Unit: 2827

Examiner: Zarnke, David

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02/04/03 Date	<i>K. A. Zarnke</i> Signature

**STATEMENT BY SHERI GRIFFIN**

I, Sheri Griffin, am providing the following statement under 37 CFR 1.181:

I am a Patent Administrator for Applied Materials Inc., of Santa Clara, California. My responsibility includes managing the documentations in connection with the prosecution of the above-identified application. I have searched the file jacket for the above-identified application and as of today, I have not found a Notice of Allowance for the referenced case other than the Notice of Allowance dated August 13, 2002 that was received on January 24, 2003 in an envelope postmarked January 13, 2003.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may


Nov-03-03 11:36am From-Moser, Patterson & Sheridan L.L.P.  
JED-31-113 11-31-03 FROM-MOSER, PATTERSON & SHERIDAN L.L.P.

+713 623 4846

T-525 P.010/011 F-280  
1-003 P.003/003 F-000

PATENT  
Atty. Docket No. AMA11/4714.PV1CG/WCVD/BG

jeopardize the validity of the application, any patent issuing thereon, or any patent to which the verified statement is directed.

  
Shen Griffin  
Patent Administrator  
Applied Materials, Inc.,  
P.O. Box 458  
Santa Clara, California 95052

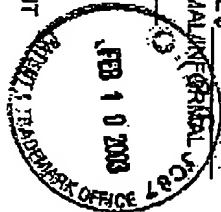
Date Signed: 1-31-2003

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DOCKET NO.: 11/14/03  
SERIAL NO.: 0916-86,206  
FILED: Oct. 3, 2000  
APPLICANT: Applied Materials  
INVENTOR: Don et al.

The Patent & Trademark Office acknowledges and has stamped  
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- COPIES**
- ☐ AFFIDAVIT
  - ☐ AMENDMENT
  - ☐ APPLICATION PAPERS - OATH/DECLARATION
  - ☐ TOTAL C.S. \_\_\_\_\_ IN C.S. \_\_\_\_\_ FEE \$ \_\_\_\_\_
  - ☐ SHEET(S) OF DRAWING(S) FORMAL INVENTION
  - ☐ ASSIGNMENT-RECORDAL FEE \$ \_\_\_\_\_
  - ☐ BRIEF
  - ☐ APPEAL NOTICE
  - ☐ DECLARATION
  - ☐ ISSUE FEE - BASE/BALANCE
  - ☐ LETTER - CHARGE DEPOSIT ACCOUNT
  - ☐ LETTER
  - ☐ TRADEMARK/SERVICE MARK APPLICATION
  - ☒ PETITION TO REINSTATE ABANDONED
  - ☐ PRELIMINARY AMENDMENT Nov 30 2003
  - ☐ INFORMATION DISCLOSURE STATEMENT
  - ☐ REQUEST FOR EXTENSION OF TIME
  - ☐ RESPONSE TO \_\_\_\_\_
  - ☐ SPECIMENS
  - ☐ SMALL ENTITY
  - ☒ CHECK # \_\_\_\_\_ IN THE AMOUNT OF \$ \_\_\_\_\_
- Attorney for Applied Materials  
Sharon G. Moser
- EXPRESS MAIL # \_\_\_\_\_ MAIL LOG # 13990  
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